

Appl. No. : 10/044,304  
Filed : October 25, 2001

AMENDMENTS TO THE CLAIMS

Please cancel Claims 1-2 and 4-11, rewrite Claim 3, and add new Claims 12-26 as follows:

Claims 1-2 (Cancelled)

3. (Currently amended) A An eyeglass lens comprising:  
a first area layer comprising a lens or lens blank having a constant index of refraction; and  
at least one second area layer comprising a material having a varying index of refraction, the second layer having a substantially constant thickness.

Claims 4-11 (Cancelled)

12. (New) The eyeglass lens of Claim 3 further comprising a third layer, the third layer comprising a second lens or lens blank, the second layer being sandwiched between the first layer and the third layer.

13. (New) The eyeglass lens of Claim 12, further comprising a stopper sandwiched between the first layer and the third layer.

14. (New) The eyeglass lens of Claim 3 configured to correct at least one higher order aberration along an optical axis of a patient for a first discrete viewing angle.

15. (New) The eyeglass lens of Claim 14 configured to correct the higher order aberration along the optical axis of the patient for a second discrete viewing angle.

16. (New) The eyeglass lens of Claim 15 configured to correct at least one lower order aberration along the optical axis of the patient for the first discrete viewing angle, the second discrete viewing angle, or both.

Appl. No. : 10/044,304  
Filed : October 25, 2001

17. (New) The eyeglass lens of Claim 14 configured to correct at least one lower order aberration along the optical axis of the patient for the first discrete viewing angle.

18. (New) The eyeglass lens of Claim 3 in which the first layer is configured to correct at least one lower order aberration along an optical axis of a patient, and in which the second layer comprises a plurality of zones, each of the zones being configured such that the varying index of refraction within each of the zones corrects for a higher order aberration of the patient.

19. (New) The eyeglass lens of Claim 3 in which the material is an epoxy.

20. (New) The eyeglass lens of Claim 3 configured to create aberrations that warp a patient's retinal image around dysfunctional retinal tissue.

21. (New) The eyeglass lens of Claim 3 configured to correct for both far vision and reading vision.

22. (New) The eyeglass lens of Claim 21 in which the first layer is a single vision lens configured to correct for far vision, and the varying index of refraction in the second layer is configured to correct for the reading vision.

23. (New) The eyeglass lens of Claim 3 in which the first layer is configured to correct a patient's vision at one distance, and in which the second layer comprises a plurality of zones, each of the zones being configured such that the varying index of refraction within each of the zones corrects for the patient's vision at a second distance.

24. (New) The eyeglass lens of Claim 3 in which the second layer has been cured to match a wavefront prescription of a patient.

25. (New) An article of manufacture, comprising:

Appl. No. : 10/044,304  
Filed : October 25, 2001

a first layer comprising a first lens or lens blank having a constant index of refraction;

a second layer comprising a stopper and a material having an index of refraction that can be changed by exposure to radiation; and

a third layer comprising a second lens or lens blank having a constant index of refraction, the second layer being sandwiched between the first layer and the third layer.

B2

26. (New) The article of manufacture of Claim 25 in which the material is an ultraviolet curing epoxy.